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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,936	12/03/2003	Takuji Chiba	392.1845	4483
21171	7590 05/11/2006		EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			PHAM, TH	IOMAS K
			ART UNIT	PAPER NUMBER
			2121	
			DATE MAILED: 05/11/2000	DATE MAILED: 05/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/725,936	CHIBA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thomas K. Pham	2121				
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>06 F</u>	ebruary 2006.					
·= · ·	s action is non-final.					
3) Since this application is in condition for allowa		secution as to the merits is				
closed in accordance with the practice under	•					
Disposition of Claims						
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) \square objected to by the	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	· · · · · · · · · · · · · · · · · · ·					
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen)-(d) or (f).				
2. Certified copies of the priority documen	2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the price	ority documents have been receive	ed in this National Stage				
application from the International Burea	, , , ,					
* See the attached detailed Office action for a list	t of the certified copies not receive	ed.				
Attachment(s)						
1)	4) Interview Summary Paper No(s)/Mail D					
2) Notice of Draitsperson's Patent Drawing Review (FTO-946) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		ratent Application (PTO-152)				

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Response to Amendment

1. This is in response to the request for reconsideration filed 2/06/2006.

2. Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection.

Quotations of U.S. Code Title 35

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent

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No. 5,862,056 ("Iwata").

Regarding claims 1 and 2

Iwata teaches a numerical control apparatus capable of controlling a plurality of controlled axes

(see col. 1 line 7-14) and comprising: storage means for storing a command program describing

movement amounts or positional information of controlled axes commanded in association with

the controlled axes (see col. 3 lines 45-56); and program analyzing means for analyzing and

decoding the command program into the movement amounts or positional information of the

axes (see col. 3 lines 57-64); wherein the plurality of controlled axes are controlled according to

the movement amounts or positional information analyzed by the program analyzing means (see

col. 4 lines 17-37).

Iwata does not specifically disclose the control axes are numbered, wherein the controlled

axis numbers can be designated by using variables.

"Official Notice" is taken that the concept and advantages of consecutively numbers the

control axes in a system with a plurality of controlled axes is well known and expected in the art

as disclosed in Japanese Patent No. 62-293307 to Ando et al. where each of a plurality of

spindles (controlled axes) for a plurality of motors are consecutively numbered as S1, S2 and S3

(see abstract). Furthermore, the concept and advantages of designating a control axis by means of

a variable is well known and expected in the art as disclosed in Japanese Patent No. 03-166605

to Shigeoka et al. where the control axes are used as variables in a sequence control program of a

programmable controller.

Therefore, it would have been obvious to one of ordinary skill in the at the time of the invention to include the numbering of controlled axes and designating variables in a system with a plurality of controlled axes to Iwata because it would provide for controlling each of the plurality of axes independently.

8. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent No. 02-045805 ("Oki").

Regarding claims 3 and 4

Oki teaches the invention including a numerical control apparatus capable of controlling a plurality of controlled axes, comprising: obtaining means for obtaining the controlled axes from the axis addresses written in the command program, based on the correspondences stored in the storage means, wherein the plurality of controlled axes are controlled based on the controlled axes obtained in the obtaining means is taught as obtaining different controlled axes such as main axes, auxiliary axes, and angle calculating axes according to the axis addresses for use in an NC program that controls the controlled axes (see abstract).

Oki does not specifically disclose the control axes are numbered and storing correspondences between axis addresses designating the controlled axes and controlled axis numbers.

"Official Notice" is taken that the concept and advantages of consecutively numbers the control axes in a system with a plurality of controlled axes is well known and expected in the art as disclosed in Japanese Patent No. 62-293307 to Ando et al. where each of a plurality of spindles (controlled axes) for a plurality of motors are consecutively numbered as S1, S2 and S3 (see abstract). Furthermore, it would be obvious to one of ordinary skill in the art to recognize

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that in order for the system to obtain the controlled axes addresses information, the information must have already been stored in the manner that each of the addresses correspond to each of the control axis.

Therefore, it would have been obvious to one of ordinary skill in the at the time of the invention to include the numbering of controlled axes in a system with plurality of controlled axes to Oki because it would provide for controlling each of the plurality of axes independently.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner *Thomas Pham*; whose telephone number is (571) 272-3689, Monday - Thursday from 6:30 AM - 5:00 PM EST or contact Supervisor *Mr. Anthony Knight* at (571) 272-3687.

Any response to this office action should be mailed to: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450. Responses may also be faxed to the official fax number (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas Pham

Patent Examiner

Tomphane

May 3, 2006